Personal Computer

VGN-A600 Series
Quick Start

SONY

Shortcut Menu

+F1	Displays the VAIO Help and Support Center window.
+Tab	Switches the selected button on the taskbar.
+D	Displays the desktop.
+E	Displays the My Computer window.
+F	Displays the Search Results window, where you can find a file or folder. This is the equivalent of selecting Search from the Start menu.
+Ctrl+F	Displays the Search Results - Computers window, where you can locate other computers. This is the equivalent of selecting Search, and then Computer from the Start menu.
+M	Minimizes all displayed windows.
Shift+ +M	Returns all minimized windows to their previous size.
+R	Displays the Run window. This is the equivalent of selecting Run from the Start menu.
Fn+ +Insert	Displays the System Properties window. This is the equivalent of selecting Control Panel, and then System from the Start menu.
Fn+F5	Decreases the LCD screen brightness.
Fn+F6	Increases the LCD screen brightness.
Fn+F7	Toggles the display between the computer screen (LCD), a connected external display, and both the LCD and an external display.
Fn+F12	Puts the system into Hibernate mode, a power management state. To return the system to normal operating mode, press the power button.
Fn+Esc	Puts the system into Standby mode, a power management state. To return the system to the active state, press any key or the power button.

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Notice to Users

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As an ENERGY STAR® Partner, Sony Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

The International ENERGY STAR® Office Equipment Program is an international program that promotes energy saving through the use of computers and other office equipment. The program backs the development and dissemination of products with functions that effectively reduce energy consumption. It is an open system in which business proprietors can participate voluntarily. The targeted products are office equipment such as computers, displays, printers, facsimiles and copiers. Their standards and logos are uniform among participating nations. ENERGY STAR is a U.S. registered mark.

The Wireless LAN functionality, which is incorporated into selected models only, has passed Wi-Fi certification and complies with the interoperability specifications established by WFA (Wi-Fi Alliance).

Sony, i.LINK, MagicGate™ Memory Stick, Memory Stick PRO, Memory Stick Duo, VAIO, and the VAIO logo are trademarks of Sony Corporation. Microsoft, Windows Media, Windows, Windows NT, and the Windows logo are registered trademarks of Microsoft Corporation.

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i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connection. The i.LINK connection may vary, depending on the software applications, operating system, and compatible i.LINK devices. All products with an i.LINK connection may not communicate with each other. Please refer to the documentation that came with your compatible i.LINK device for information on operating conditions and proper connection. Before connecting compatible i.LINK PC peripherals to your system, confirm their operating system compatibility and required operating conditions. All other trademarks are trademarks of their respective owners.

End User / Product Activation Requirements

Certain software product(s) included with this computer may include features such as copy protection and content management technology. Use of the software product(s) requires agreement to applicable end user agreements and full compliance with applicable product activation procedures. Product activation procedures and privacy policies will be detailed during initial launch of the software product(s), or upon certain reinstallations of the software product(s) or reconfiguration of the computer, and may be completed by Internet or telephone (toll charges may apply).

Owner's Record

The model number and serial number are located on the bottom of your Sony VAIO® computer. Record the model and serial numbers in the space provided here, and keep in a secure location. Refer to the model and serial numbers when you call your Sony Service Center.

Model Number:_____

Serial Number:_____

Safety Information

WARNING

- ❑ To prevent fire or shock hazard, do not expose your computer to rain or moisture.
- ❑ To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.
- ❑ Never install modem or telephone wiring during a lightning storm.
- ❑ Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- ❑ Never touch uninsulated telephone wire or terminals unless the telephone line has been disconnected at the network interface.
- ❑ Use caution when installing or modifying telephone lines.
- ❑ Avoid using the modem during an electrical storm.
- ❑ Do not use the modem or a telephone to report a gas leak in the vicinity of the leak.
- ❑ A socket outlet should be as close as possible to the unit and easily accessible.
- ❑ i.LINK, PC Card, and USB connectors are not supplied with Limited Power Sources.
- ❑ To prevent possible damage to your computer during transportation, first attach any supplied connector covers and slot protectors in their appropriate locations, and secure the battery pack in the battery bay.
- ❑ Do not use or store your computer in a location subject to: Heat sources, such as radiators or air ducts; direct sunlight; excessive dust; moisture or rain; mechanical vibration or shock; strong magnets or speakers that are not magnetically shielded; ambient temperature higher than 95ºF (35ºC) or less than 40ºF (5ºC); and high humidity.
- ❑ This computer is designed to operate only with genuine Sony batteries.

To change the backup battery, please contact your nearest Sony Service Center.

Caution: The use of optical instruments with this product will increase eye hazard. As the laser beam used in this product is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

(For optical drive) Caution: Class3B visible and invisible laser radiation when open. Avoid exposure to beam.

Caution: To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.

AVERTISSEMENT

- Pour prévenir tout risque d'incendie ou d'électrocution, garder cet appareil à l'abri de la pluie et de l'humidité.
- Pour prévenir tout risque d'électrocution, ne pas ouvrir le châssis de cet appareil et ne confier son entretien qu'à une personne qualifiée.
- Ne jamais effectuer l'installation de fil modem ou téléphone durant un orage électrique.
- Ne jamais effectuer l'installation d'une prise téléphonique dans un endroit mouillé à moins que la prise soit conçue à cet effet.
- Ne jamais toucher un fil téléphonique à découvert ou un terminal à moins que la ligne téléphonique n'ait été débranche de l'interface réseau.
- Soyez très prudent lorsque vous installez ou modifiez les lignes téléphoniques.
- Évitez d'utiliser le modem durant un orage électrique.
- N'utilisez pas le modem ni le téléphone pour prévenir d'une fuite de gaz quand vous êtes près de la fuite.
- L'appareil doit être le plus près possible d'une prise murale pour en faciliter l'accès.
- Des connecteurs i.LINK, PC Card, et USB ne sont pas fournis avec des Sources d'Énergie Limitées.
- Afin de prévenir des indemnités à votre ordinateur pendant la transportation, attachez d'abord tous les volets de connecteurs et protecteurs d'emplacements comme il faut, et insérez la batterie dans le logement de la batterie.
- Évitez d'utiliser ou de ranger votre ordinateur dans un endroit soumis à: des sources de chaleur telles que des radiateurs ou des bouches d'aération; la lumière directe du soleil; une poussière excessive; l'humidité ou la pluie; des vibrations ou des chocs mécaniques; des aimants puissants ou des haut-parleurs dépourvus de blindage antimagnétique; une température ambiante supérieure à 35 °C (95°F) ou inférieure à 5 5°C (40°F); et une forte humidité.
- Cet ordinateur est conçu pour fonctionner uniquement avec des batteries Sony.

Pour changer la pile de rechange, veuillez contacter votre centre de service Sony le plus près.

Avertissement: L'utilisation d'instruments optiques avec ce produit augmente les risques pour les yeux. Puisque le faisceau laser utilisé dans ce produit est dommageable pour les yeux, ne tentez pas de désassembler le boîtier. Adressez-vous à un agent de service qualifié.

(Pour le lecteur optique) Avertissement: Classe 3B radiation laser visible et invisible si ouvert. Évitez l'exposition au faisceau.

Attention : Afin de réduire les risques d'incendie, n'utilisez qu'un cordon de communication N0. 26 AWG ou plus gros.

If you have questions about this product, you can write to the Sony Customer Information Service Center at 12451 Gateway Blvd., Ft. Myers, FL 33913 or find Sony Customer Service on the Web at: http://www.sony.com/pcsupport.

Regulatory Information

Declaration of Conformity

Trade Name:	Sony
Model No.:	PCG-8S1L, PCG-8S2L, PCG-8S3L, PCG-8S4L, PCG-8S5L, PCG-8S6L, VGP-PRAV1, VGP-PRA1
Responsible Party:	Sony Electronics Inc.
Address:	16450 W. Bernardo Dr. San Diego, CA 92127 USA
Telephone: (For FCC-related matters only.)	858-942-2230

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ❑ Reorient or relocate the receiving antenna.
- ❑ Increase the separation between the equipment and the receiver.
- ❑ Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- ❑ Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications to the computer not expressly approved in this manual could void your authority to operate this equipment.

Only peripherals (computer input/output devices, terminals, printers, etc.) that comply with FCC Class B limits may be attached to this computer product. Operation with non-compliant peripherals is likely to result in interference to radio and television reception.

All cables used to connect peripherals must be shielded and grounded. Operation with cables connected to peripherals that are not shielded and grounded may result in interference to radio and television reception.

FCC Part 68

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this information must be provided to the telephone company.

This modem uses the USOC RJ11C telephone jack.

A telephone plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA.

The REN is used to determine the number of devices which may be connected to the telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the telephone company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US: AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, you can reach the Sony Customer Information Service Center at 1-888-4-SONY-PC, or write to the Sony Customer Information Service Center at 12451 Gateway Blvd., Ft. Myers, FL 33913; or find Sony Customer Service on the Web at: http://www.sony.com/pcsupport. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Repair of this equipment should be made only by a Sony Service Center or Sony authorized agent. For the Sony Service Center nearest you, call 1-888-4-SONY-PC (1-888-476-6972).

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission, or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

Use a surge arrestor to protect against electrical surges.

FCC Radio Frequency Exposure (United States)

(Applies to Bluetooth and wireless LAN models only) This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 8 inches (20 cm) between the radiator and body (excluding extremities: hands, wrists, and feet).

This device and its antenna(s) must not be co-located or operating with any other antenna or transmitter except Grant condition.

Users are not permitted to modify these transmitter devices. Any unauthorized change made to this device could void your authority to operate this device.

The PCG-8S1L and PCG-8S3L computer models contain a Wireless LAN transmitter which is co-located and operating simultaneously with a 0.94 mW Bluetooth module FCC ID CWTUGPZ5.

IC RSS-210 (Canada)

(Applies to Bluetooth and wireless LAN models only) Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

IC Exposure of Humans to RF Fields: The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website: http://www.hc-sc.gc.ca/rpb.

L'instillateur du présent matériel radio doit s'assurer que l'antenne est située ou pointée de manière à ce que cette dernière n'émette pas de champs radioélectriques supérieurs aux limites spécifiées par Santé Canada pour le grand public; consulter le Code de sécurité 6, disponible sur le site Web de Santé Canada, à l'adresse suivante: http://www.hc-sc.gc.ca/rpb.

The PCG-8S1L, PCG-8S3L, notebook computers contain a Wireless LAN transmitter which is co-located and operating simultaneously with a 0.94 mW Bluetooth module FCC ID CWTUGPZ5.

Wireless mouse

Carrier frequency	27.045 MHz
Output power	Less than 100 nW

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

The term "IC:" before the certification / registration number only signifies that the Industry Canada technical specifications were met.

(S'applique aux modèles sans fil de LAN seulement) L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes: (1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même

si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Pour empêcher que cet appareil cause du brouillage au service faisant l'objet d'une licence, il doit être utilisé à l'interieur et devrait être placé loin des fenêtres afin de fournir un écran de blindage maximal. Si le matériel (ou son antenne d'émission) est installé a l'exterieur, il doit faire l'objet d'une licence.

L'expression "IC:" avant le numéro d'homologation / enregistrement signifie seulement que les spécifications techniques d'Industrie Canada ont été respectées.

Telephone Consumer Protection Act of 1991 (United States)

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including FAX machines, to send any message unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message, and the telephone number of the sending machine or such business, other entity, or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long-distance transmission charges.)

In order to program this information into your facsimile machine, see your fax software documentation.

Telephone Consumer Guidelines (Canada)

Please refer to your telephone directory under 'Privacy Issues' and/or 'Terms of Service.' For more detailed information, please contact:

CRTC
Terrasses de la Chaudière, Tour centrale 1 promenade du Portage, 5 étage Hull PQ K1A 0N2.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

RECYCLING INFORMATION

(For customers in the United States) This product contains mercury. Disposal of this product may be regulated if sold in the United States. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance (http://www.eiae.org).

RECYCLING LITHIUM-ION BATTERIES

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.

You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit http://www.rbrc.org/.

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

Do not handle damaged or leaking lithium ion batteries.

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 140°F (60°C) or incinerate. Dispose of used battery promptly. Keep away from children.

RECYCLAGE DES ACCUMULATEURS AUX IONS DE LITHIUM

RECYCLAGE DES ACCUMULATEURS AUX IONS DE LITHIUM

Les accumulateurs aux ions de lithium sont recyclables.

Vous pouvez contribuer à préserver l'environnement en rapportant les piles usées dans un point de collection et recyclage le plus proche.

Pour plus d'informations sur le recyclage des accumulateurs, téléphonez le numéro gratuit 1-800-822-8837 (Etats-Units et Canada uniquement), ou visitez http://www.rbrc.org/.

Avertissment: Ne pas utiliser des accumulateurs aux ions de lithium qui sont endommagées ou qui fuient.

Ne pas utiliser des batteries au lithium ionisé qui sont endommagées ou qui fuient.

Une batterie non conforme présente un danger d'explosion. La remplacer seulement par une batterie identique ou de type équivalent recommandé par le fabricant. Évacuer les batteries usées selon les directives du fabricant.

La manutention incorrecte du module de batterie de cet appareil présente un risque d'incendie ou de brûlures chimiques. Ne pas démonter, incinérer ou exposer à une température de plus de 60°C. Évacuer promptement la batterie usée. Garder hors de portée des enfants.

INDUSTRY CANADA NOTICE

NOTICE: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications.

The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed five.

AVIS D'INDUSTRIE CANADA

REMARQUE: Cet équipement est conforme aux Spécifications Techniques des Équipements Terminaux d'Industrie Canada en vigueur.

Le Nombre Équivalent de Sonneries (REN) de cet équipement terminal est 0,1. Le REN attribué à chaque équipement terminal indique le nombre maximum de terminaux que l'on peut connecter à une interface téléphonique. Il est possible de raccorder à une interface plusieurs combinaisons d'appareils, mais la somme des Nombres Équivalents de Sonneries de tous ces appareils ne doit pas dépasser cinq.

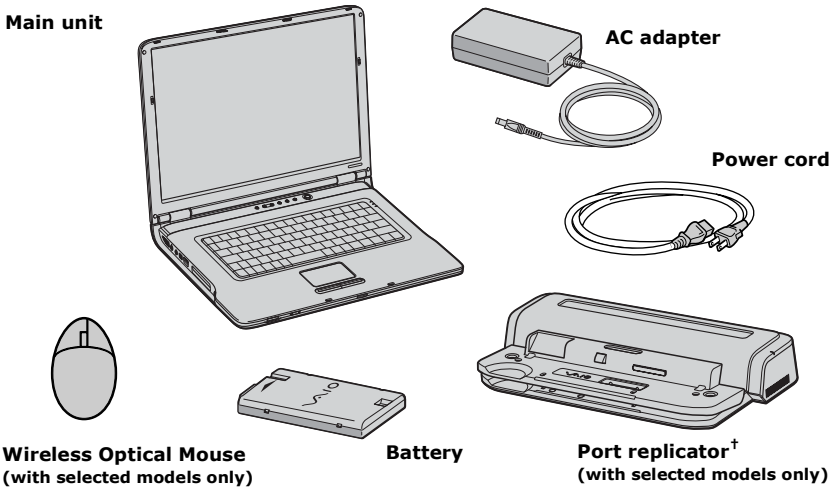
Setting Up

Congratulations on your purchase of the Sony VAIO® computer. Sony has combined leading-edge technology in audio, video, computing, and communications to provide state-of-the-art personal computing.

Unpacking Your Computer

These hardware components are included.

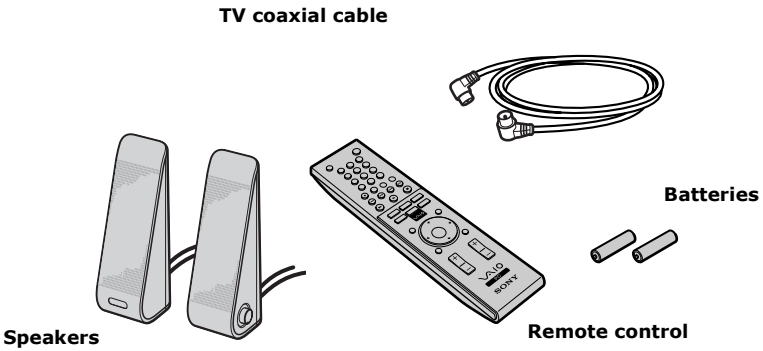
Carton Contents



† Selected models are bundled with the A/V port replicator.

The A/V port replicator is supplied with selected models only. If the computer you purchased comes with an A/V port replicator, the accessories listed on the following page are also included in the carton.

A/V Port Replicator Accessories



For additional information about the A/V port replicator accessories and how to use them, refer to the VAIO® Computer User Guide.

✍ Your VAIO® computer is not supplied with System or Application Recovery CDs. Use the VAIO Recovery Wizard utility to recover your computer's operating system and preinstalled software.

VAIO Computer Documents

- **VAIO® Computer User Guide** — A searchable on-screen help file that contains detailed information on how to use your new computer. See "Locating Your VAIO Computer User Guide" on page 38 for more information.
- **VAIO® Computer Specifications** — An online file that details the hardware specifications and lists the installed programs on your computer. Go to http://www.sony.com/pcsupport for more information.

Hard Disk Drive Recovery

Your computer is equipped with the VAIO Recovery Wizard utility program that recovers your computer's operating system and preinstalled software. For more information about hard disk drive recovery, do the following:

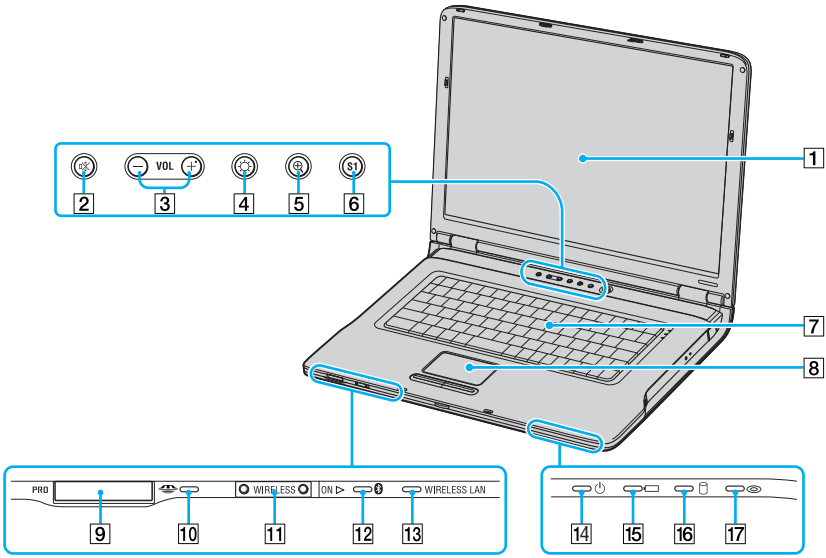
1 Click **Start** in the Windows® taskbar, then click **Help and Support**.

2 From the **VAIO Help and Support Center**, click **VAIO Recovery Options**.

✍ You can create a VAIO Recovery Media Kit using CD-R, single-layer DVD+R, or single layer DVD-R media on VAIO computers equipped with the appropriate optical disc drive.
DVD+RW, DVD-RW, double layer DVD+R, and double layer DVD-R media cannot be used to create a VAIO Recovery Media Kit.

Locating Controls and Ports

Front



1	LCD screen	**10**	Memory Stick® media indicator
2	Mute button	**11**	Wireless switch*
3	Volume buttons	**12**	Bluetooth® indicator*
4	Brightness button	**13**	Wireless indicator*
5	Magnify screen button	**14**	Power indicator
6	S1 button	**15**	Battery indicator
7	Keyboard	**16**	Hard disk drive indicator
8	Touch pad	**17**	Optical drive indicator
9	Memory Stick® media slot†		

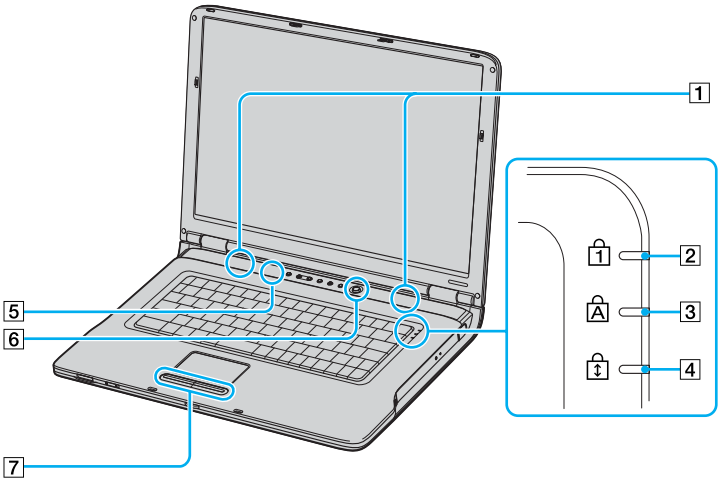
* Wireless LAN and Bluetooth functionality available on selected models only.

† Your computer supports Memory Stick Duo™ media and Memory Stick PRO™ high speed and high capacity capabilities.

Do not insert more than one Memory Stick media into the Memory Stick media slot as it may damage the computer.

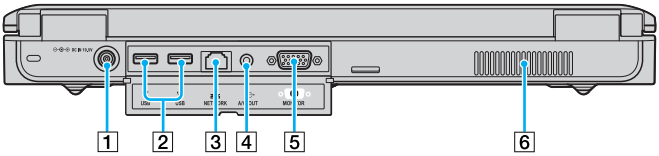
Insert the Memory Stick media with the arrow facing up and toward the slot. Inserting the media improperly may damage the computer.

Front



1	Speakers	**5**	Brightness sensor
2	Num lock indicator	**6**	Power button
3	Caps lock indicator	**7**	Left and right buttons
4	Scroll lock indicator		

Back

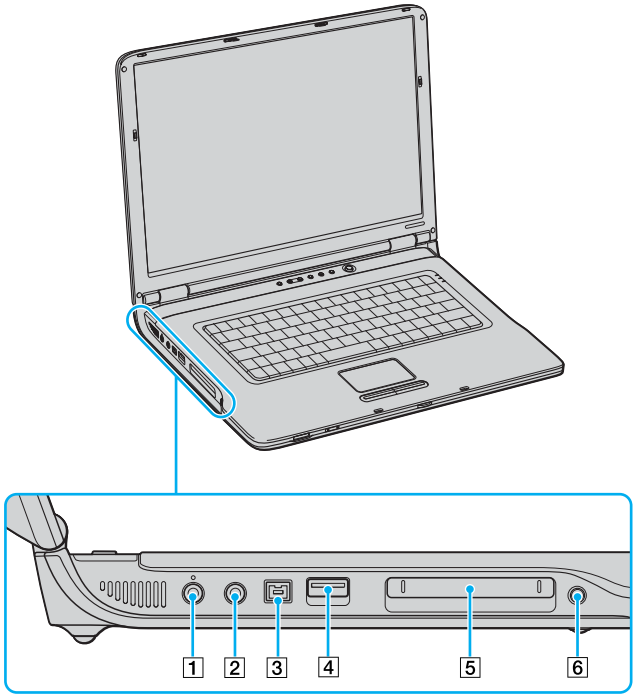


1	DC In port	**4**	AV Out jack
2	USB 2.0 ports*	**5**	Monitor (VGA) port
3	Network (Ethernet) port	**6**	Air vent

* Supports high-/full-/low- speeds.

Only connect 10BASE-T, 100BASE-TX, or 1000BASE-TX cables to the Network (Ethernet) port. Do not connect any other type of network cable or any telephone line to this port. Connecting cables other than those listed above may result in an electric current overload and could cause a malfunction, excessive heat, or fire in the port. To connect the unit to a network, refer to your on-screen VAIO® Computer User Guide or contact your network administrator. See "Locating Your VAIO Computer User Guide" on page 38 for more information.

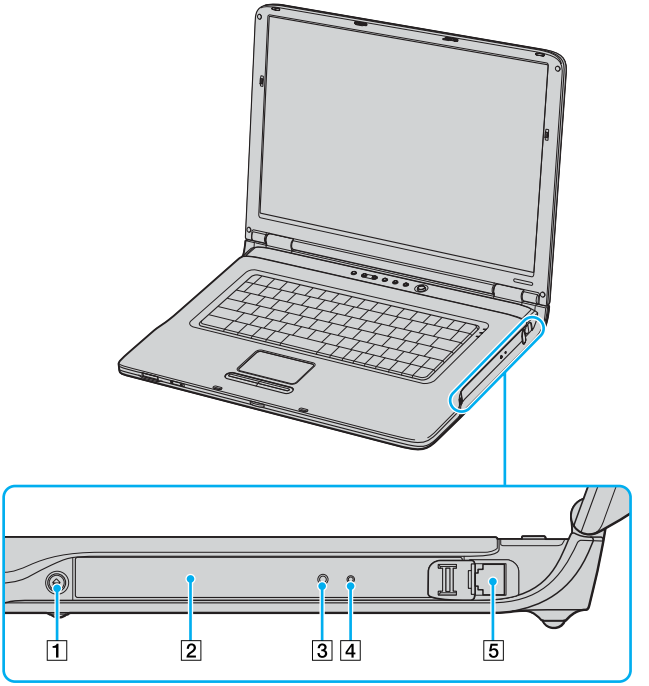
Left



1	Microphone jack	**4**	USB 2.0 port*
2	Headphone jack	**5**	PC Card slot
3	i.LINK® (IEEE 1394) S400 port	**6**	PC Card eject button

* Supports high-/full-/low- speeds.

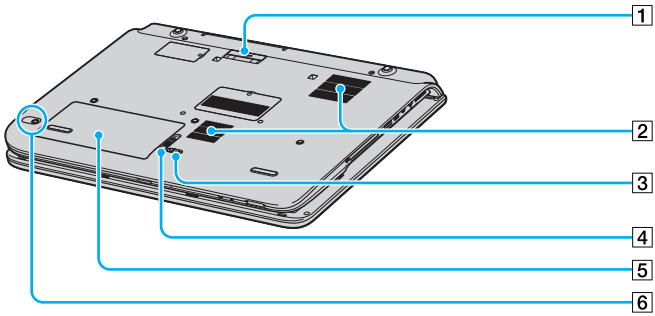
Right



1	Drive eject button	**4**	Drive eject button
2	Optical drive	**5**	Modem jack
3	Manual eject hole		

✍ You can use either drive eject button to eject the optical drive tray. The drive eject button located next to the optical drive functions only with the Microsoft® Windows® operating system.

Bottom



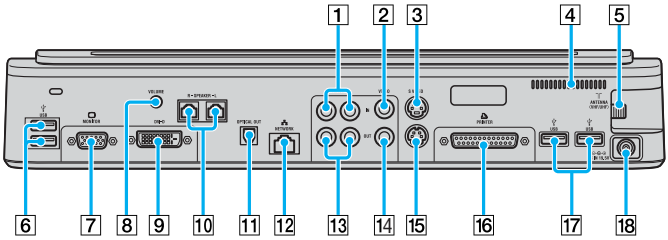
1	Port replicator connector	**4**	RELEASE switch
2	Air vents	**5**	Battery bay
3	LOCK/UNLOCK switch	**6**	CONNECT button*

* On selected models with wireless mouse functionality.

See “Connecting the Wireless Mouse” on page 36 for more information about using the wireless optical mouse.

✍ The printer port on this port replicator is intended for printer connections only.

A/V Port Replicator

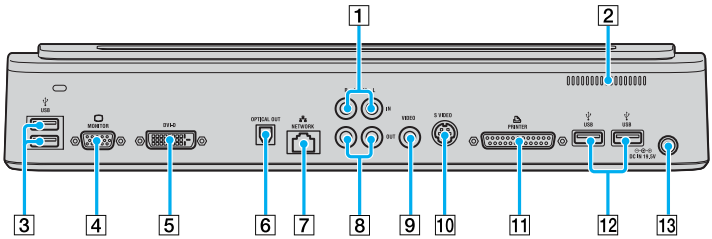


1	Composite Audio In jacks	**10**	Speaker jacks (right and left)
2	Composite Video In jack	**11**	Optical Out port Output frequency (96 kHz*/48 kHz/44 kHz/Variable)
3	S Video In port	**12**	Network (Ethernet) port (10BASE-T / 100BASE-TX / 1000BASE-TX)
4	Air vent	**13**	Composite Audio Out jacks
5	VHF/UHF port	**14**	Composite Video Out jack
6	USB 2.0 ports†	**15**	S Video Out port
7	Monitor (VGA) port	**16**	Printer port
8	Volume jack	**17**	USB 2.0 ports‡
9	DVI-D port	**18**	DC IN port

* Output frequency is fixed at 48 kHz for all source sample rates except 32 kHz and 44.1 kHz.
† Supports high-/full-/low- speeds.

✍ The printer port on this port replicator is intended for printer connections only.

Business Port Replicator



1	Composite Audio In jacks	**8**	Composite Audio Out jacks
2	Air vent	**9**	Composite Video Out jack
3	USB 2.0 ports*	**10**	S Video Out port
4	Monitor (VGA) port	**11**	Printer port
5	DVI-D port	**12**	USB 2.0 ports*
6	Optical Out port Output frequency (96 kHz†/48 kHz/44 kHz/Variable)	**13**	DC IN port
7	Network (Ethernet) port (10BASE-T / 100BASE-TX / 1000BASE-TX)		

* Supports high-/full-/low- speeds.

† Output frequency is fixed at 48 kHz for all source sample rates except 32 kHz and 44.1 kHz.

About the Indicator Lights

Indicator	Function
Power	Turns on when the power to the computer is on, blinks in Standby mode, and turns off when the computer is in Hibernate mode or off.
Battery	Turns on when the computer is using battery power, blinks when the battery is running out of power, double-blinks when the battery is charging.
Memory Stick®	Turns on when data is read from or written to the Memory Stick media. (Do not enter Standby mode or turn off the computer when this indicator is on.) When the indicator is off, the Memory Stick media is not being used.
Hard Disk	Turns on when data is read from or written to the hard disk. Do not enter Standby mode or turn off the computer when this indicator is on.
Num Lock	The Num Lock indicator turns on when the numeric keypad is activated. When the indicator is off, the directional arrow and correction keys on the numeric keypad area are active.
Caps Lock	The Caps Lock indicator turns on to advise you that the keyboard is set to type letters in uppercase. When the indicator is off, the letters appear in lowercase as you type.

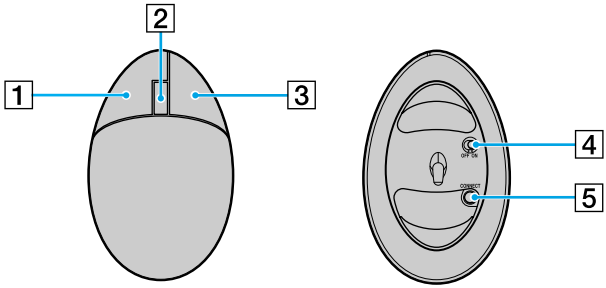
Indicator	Function
Scroll Lock	The Scroll Lock indicator turns on to advise you that your screen's scrolling pattern has changed. This function is not available with all software programs. Normal scrolling resumes when the Scroll Lock indicator is off.
Bluetooth®*	Turns on when the wireless switch is set to ON and Bluetooth technology is enabled.
Wireless LAN*	Turns on when the wireless LAN function is running.

* On selected models only.

About the Wireless Mouse

Your VAIO® computer may be supplied with a wireless optical mouse, depending on the model that you purchased. Before attempting to use the wireless optical mouse with your computer, see “Connecting the Wireless Mouse” on page 36.

Identifying the Parts of Your Wireless Mouse

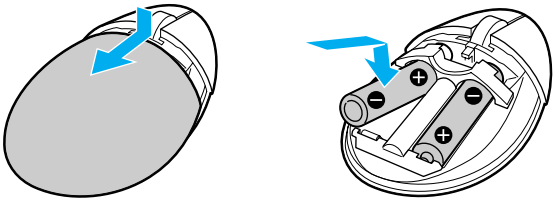


1	Left mouse button	**4**	Power switch
2	Wheel button	**5**	CONNECT button
3	Right mouse button		

To set up the wireless mouse

Insert two AA batteries (supplied with the mouse) into the wireless mouse as shown.

Inserting Batteries into the Wireless Mouse



If your wireless mouse does not operate properly, the batteries may need to be replaced. When your wireless mouse is not being used for extended periods of time, remove the batteries to avoid possible damage from battery leakage.

Getting Started

This section helps you get your computer running and registered, so you can take advantage of Sony's many support options. You'll also learn how to locate your on-screen VAIO® Computer User Guide, which contains step-by-step instructions for operating your computer.

Turning On Your Computer

To use your computer immediately, use the supplied AC adapter as a power source. Your supplied battery is not charged when you unpack it; however, you can begin charging it when you use your AC adapter. See "Powering Your Computer" in your on-screen VAIO® Computer User Guide for more information about using batteries. See also "Locating Your VAIO Computer User Guide" on page 38.

✍ This computer is designed to operate only with genuine Sony batteries.

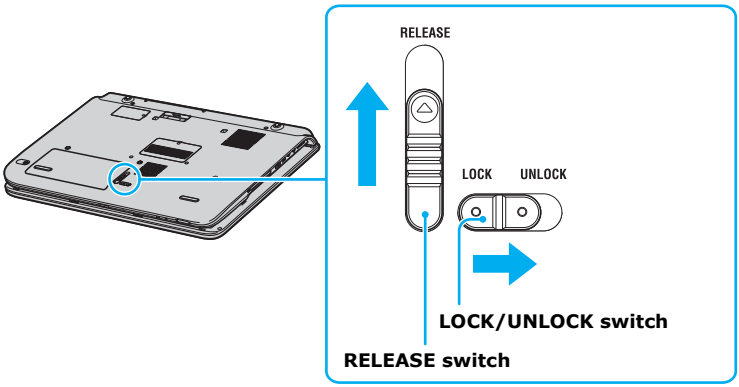
✍ If a port replicator is attached to your computer, do not insert or remove the battery. Lifting and turning the computer with a port replicator attached could cause a temporary loss of power.

To insert and charge the battery

1 First turn the computer over so the bottom panel is facing up.

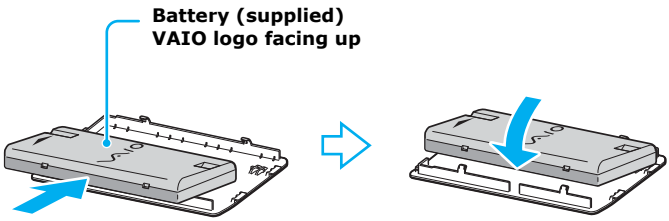
2 Slide the **LOCK/UNLOCK** switch to **UNLOCK**, and then slide the **RELEASE** switch in the direction of the arrow to lift the battery bay cover.

Opening the Battery Bay



3 Slide the battery (with the logo facing up) into the battery bay cover. The two hooks on each side of the battery bay cover should click into the grooves on the battery.

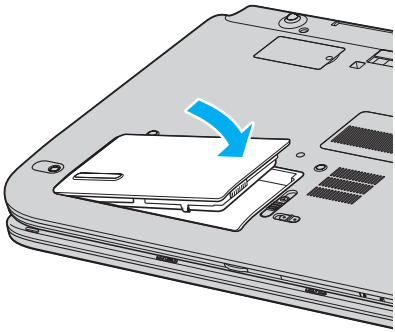
Inserting the Battery



4 With the battery securely inserted into the battery bay cover, align the hooks on the battery bay cover with the grooves inside the battery bay.

5 Lower the battery into the battery bay until you hear it click.

Securing the Battery



6 Slide the **LOCK/UNLOCK** switch to **LOCK**.

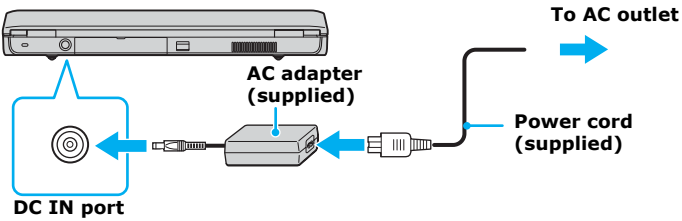
7 Connect the AC adapter to the computer. See “To connect the AC adapter” on page 32.

Once you connect the AC adapter to the computer, the battery begins to charge whether the computer is on or off. The battery indicator shows the battery status. The indicator blinks as the battery charges. See “Powering Your Computer” in your on-screen VAIO® Computer User Guide for more information.

To connect the AC adapter

1 Plug the AC adapter cable into the DC IN port.

Connecting the AC Adapter to the Computer



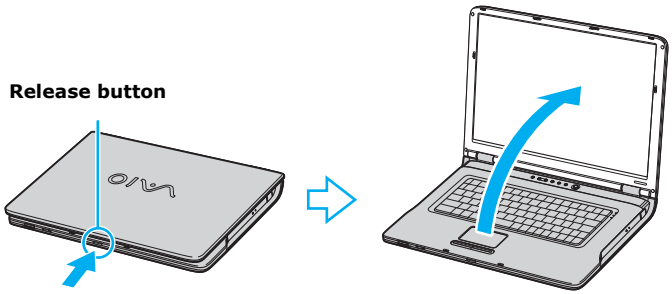
2 Plug the power cord into the AC adapter and an AC outlet.

✍ Use only the supplied AC adapter with your computer.

To open and turn on the computer

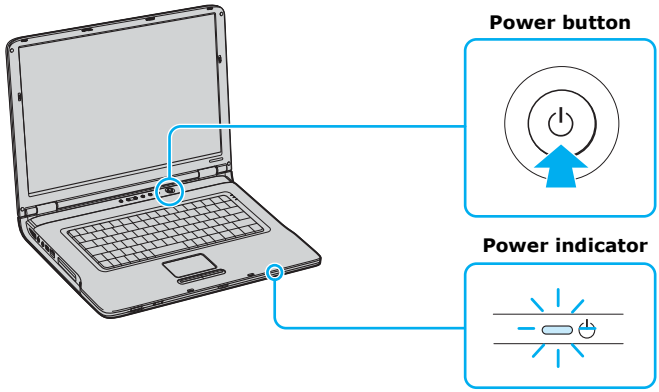
1 Press the release button and lift the cover while holding the bottom of the computer firmly.

Opening the Computer



2 Press the power button until the power indicator turns on.

Turning on the Computer



✍ If you continue to press the power button, the computer turns off.

3 If necessary, adjust the brightness of the LCD screen.

Your computer comes with a brightness sensor that automatically increases and decreases the LCD screen's brightness level depending on the amount of external light. To override the automatic setting and manually adjust the brightness, follow these steps:

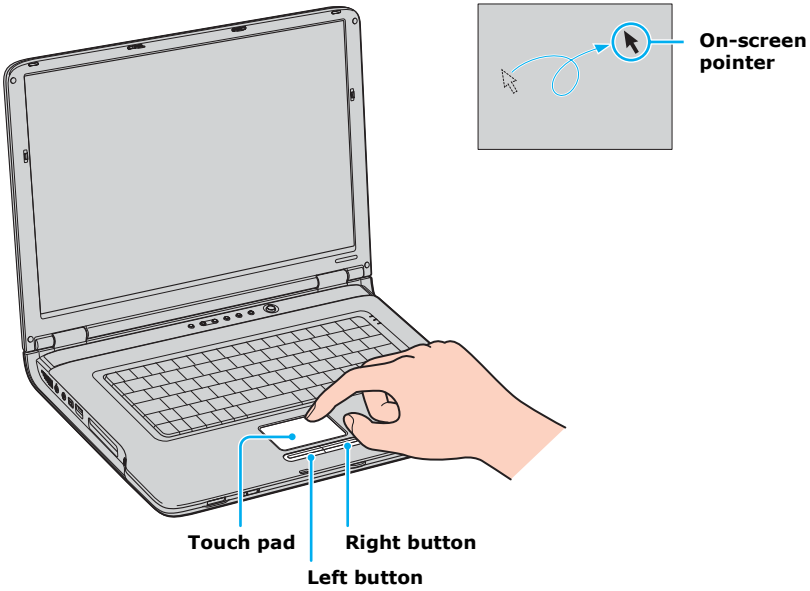
- ❑ Press the Brightness button, located next to the Volume buttons. See "Using Special Buttons" in your on-screen VAIO® Computer User Guide for more information.
- ❑ Press the **Fn** and **F5** keys to decrease the brightness.
- ❑ Press the **Fn** and **F6** keys to increase the brightness.

Using the Touch Pad

The computer contains a pointing device called a touch pad. You can point to, select, drag, and scroll objects on the screen using the built-in touch pad.

Describing the touch pad

Locating the Touch Pad



Touch Pad Action	Description
Sliding one finger	Equivalent to using a mouse to place the pointer on an item.
Tapping once	Equivalent to pressing the left button once.
Tapping twice	Equivalent to pressing the left button twice.

Touch Pad Action	Description
Sliding one finger while pressing the left button	Equivalent to using the mouse to drag an item.
Moving your finger along the right edge of the touch pad	Equivalent to scrolling vertically. (The scroll function is available only with programs that support a touch pad scroll feature.)
Moving your finger along the bottom to scroll horizontally	Equivalent to scrolling horizontally. (The scroll function is available only with programs that support a touch pad scroll feature.)

Connecting the Wireless Mouse

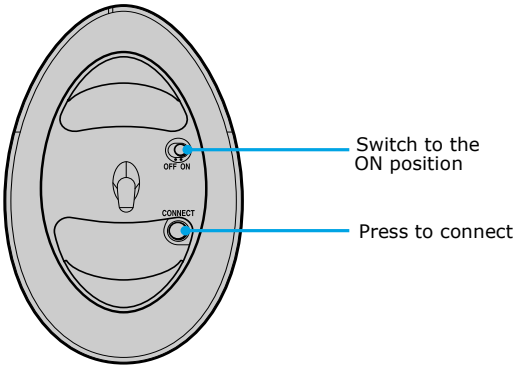
Before attempting to use the wireless mouse (supplied with selected models only), you must enable communication between the computer and the mouse.

To connect the wireless optical mouse

1 Turn the wireless mouse over.

2 Slide the power button on the wireless mouse to the **ON** position.

Connecting the Mouse



3 Turn on your computer.

Confirm that the AA batteries (supplied) are properly inserted into the mouse before your computer is turned on.

4 Reach underneath the right side of the computer and press the **CONNECT** button.

5 Press the **CONNECT** button on the wireless mouse within 30 seconds after pressing the **CONNECT** button on the computer.

6 Place the optical mouse on an appropriate surface to enable tracking. The wireless mouse must be within 12 inches of the computer.

✍ Once a connection has been established between the wireless mouse and the computer, it will remain in effect until another wireless mouse is connected to the computer. See the on-screen VAIO® Computer User Guide for more information about using the wireless mouse.

Registering Your Computer

✍ You are prompted to register your computer the first time you turn on the unit. Follow the on-screen instructions to complete the registration process. If you are not able to register your computer during the first session, you are provided with additional registration opportunities later.

Take advantage of Sony's commitment to quality customer support and receive these benefits by registering your computer[1]:

- ❑ Sony Customer Support — Talk to a support representative to troubleshoot problems you may have with your computer.
- ❑ Product Information Notification — By giving Sony your contact information, you will enable Sony to reach you regarding performance updates and upgrades.

1 Sony product registration is voluntary; failure to register will not diminish your limited warranty rights

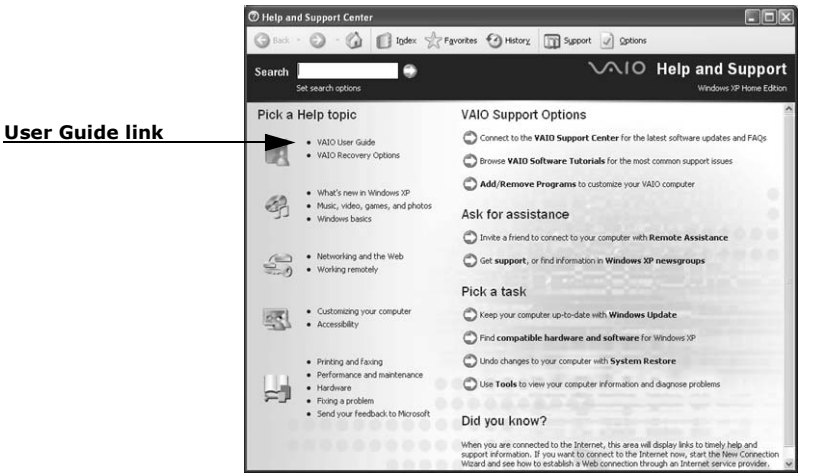
Locating Your VAIO Computer User Guide

The on-screen VAIO® Computer User Guide is a searchable help file that contains detailed information on how to use your new computer.

To open the user guide

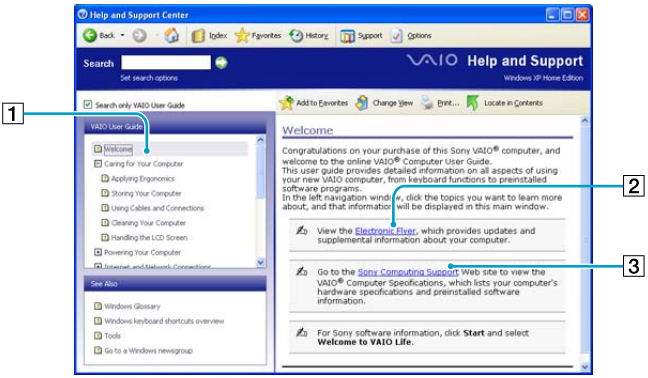
1 Click **Start** on the Windows® taskbar, and then click **Help and Support**. The **Help and Support Center** window appears, displaying information about your VAIO® computer and Microsoft® Windows® operating system.

Locating the VAIO User Guide


User Guide link
Help and Support Center
Index
Favorites
History
Support
Options
Search
Set search options
VAIO Help and Support
Windows XP Home Edition
Pick a Help topic
VAIO User Guide
VAIO Recovery Options
What's new in Windows XP
Music, video, games, and photos
Windows basics
Networking and the Web
Working remotely
Customizing your computer
Accessibility
Printing and faxing
Performance and maintenance
Hardware
Fixing a problem
Send your feedback to Microsoft
VAIO Support Options
Connect to the VAIO Support Center for the latest software updates and FAQs
Browse VAIO Software Tutorials for the most common support issues
Add/Remove Programs to customize your VAIO computer
Ask for assistance
Invite a friend to connect to your computer with Remote Assistance
Get support, or find information in Windows XP newsgroups
Pick a task
Keep your computer up-to-date with Windows Update
Find compatible hardware and software for Windows XP
Undo changes to your computer with System Restore
Use Tools to view your computer information and diagnose problems
Did you know?
When you are connected to the Internet, this area will display links to timely help and support information. If you want to connect to the Internet now, start the New Connection Wizard and see how to establish a Web connection through an Internet service provider.

2 Click **VAIO User Guide** in the **Pick a Help topic** column. A second **Help and Support Center** window appears with the user guide.

VAIO User Guide Window


1
2
3
Help and Support Center
Search
VAIO Help and Support
Welcome
Congratulations on your purchase of this Sony VAIO® computer, and welcome to the online VAIO® Computer User Guide.
This user guide provides detailed information on all aspects of using your new VAIO computer, from keyboard functions to preinstalled software programs.
In the left navigation window, click the topics you want to learn more about, and that information will be displayed in this main window.
View the Electronic Flyer, which provides updates and supplemental information about your computer.
Go to the Sony Computing Support Web site to view the VAIO® Computer Specifications, which lists your computer's hardware specifications and preinstalled software information.
For Sony software information, click Start and select Welcome to VAIO Life.

1	User guide table of contents	List of computer help topics
2	Link to Electronic Flyer	List of updates and supplemental information
3	Link to Sony Computing Support Web site	Includes support information and list of your computer's hardware specifications (Internet access required).

Setting Up A Dial-Up Connection

This section describes the basic steps for setting up your dial-up connection. The Connection Wizard guides you through the process of choosing an Internet Service Provider (ISP) or setting up an existing account, and connecting to the Internet.

To set up a dial-up connection

1. Connect a telephone cable to your computer. See "Setting up a dial-up Internet connection" in the Internet and Network Connections chapter of your on-screen VAIO® Computer User Guide.
2. Click **Start**, point to **All Programs**, **Accessories**, **Communications**, and then click **New Connection Wizard**. The **New Connection Wizard** appears.

New Connection Wizard

New Connection Wizard
Welcome to the New Connection Wizard
This wizard helps you:
• Connect to the Internet.
• Connect to a private network, such as your workplace network.
• Set up a home or small office network.
To continue, click Next.
< Back
Next >
Cancel

3. Click **Next**.
4. If it is not already selected, click **Connect to the Internet**.
5. Click **Next**.
6. Follow the on-screen instructions.

Turning Off Your Computer

Using the power button to turn off your computer may result in loss of data. Follow the steps below to properly turn off your computer and avoid losing data.

To turn off your computer

1. Close all operations.
2. Click **Start** on the Windows® taskbar.
3. Click **Turn Off Computer** at the bottom of the **Start** menu to display the **Turn off computer** window, and select **Turn Off**.

✍ Respond to any prompts warning you to save documents.

4. Wait for your computer to turn off automatically. The computer is off when the power indicator turns off.

✍ During a period of inactivity, you can conserve battery life by adjusting the power management settings and using power saving modes. See “Conserving Battery Power” in your on-screen VAIO® Computer User Guide for more information.

✍ If you are unable to turn off the computer, press the power button and hold it until the power indicator turns off. This operation may result in data loss.

Troubleshooting

What do I do if my computer won't start?

- ❑ Make sure the computer is securely plugged into a power source and turned on. Make sure the power indicator shows the power is on.
- ❑ Make sure the battery is inserted properly and charged.
- ❑ Make sure the floppy disk drive (if applicable) is empty.
- ❑ If the computer is plugged into a power strip or uninterruptible power supply (UPS), make sure the power strip or UPS is turned on and working.
- ❑ If you are using an external display, make sure it is plugged into a power source and turned on. Make sure the brightness and contrast controls are adjusted correctly. See the guide that came with your display for details.
- ❑ Disconnect the AC adapter and remove the battery. Wait three to five minutes. Reattach the AC adapter and reinsert the battery, and press the Power button to turn on the computer.
- ❑ Condensation may cause the computer to malfunction. If this occurs, do not use the computer for at least one hour.

✍ For further instructions, contact Sony Computing Support (http://www.sony.com/pcsupport).

What do I do if a BIOS error appears when my computer starts?

If the message "Press <F1> to resume, <F2> to setup" appears at the bottom of the screen, follow these steps:

1. Press the **F2** key. The **BIOS Setup** menu appears.
2. Set the date (month/day/year). Press **Enter**.
3. Press the **Down Arrow** key ↓ to select **System Time**, and then set the time (hour: minute: second). Press **Enter**.

4 Press the **Right Arrow** key → to select the **Exit** tab, and then press the **Down Arrow** key ↓ to select **Get Default Values**. The message **Load factory default values.** appears.

5 Press the **Enter** key. The **Load Optimal Defaults?** window appears.

6 Select **Ok**, and press **Enter**.

7 Select **Exit (Save Changes)**, and press **Enter**. The **Save configuration changes and exit setup?** window appears.

8 Select **Ok**, and press **Enter**. The computer restarts.

✍ If this occurs on a regular basis, contact Sony Computing Support (http://www.sony.com/pcsupport).

What do I do if the message "Operating system not found" appears when my computer starts, and why won't Windows start?

- ❑ Make sure the computer does not have a "non-bootable" floppy disk in the floppy disk drive (if applicable).
- ❑ If a non-bootable floppy disk is in the drive:
  1 Remove the floppy disk.
  2 Restart the computer and confirm that the Microsoft® Windows® operating system starts properly.
- ❑ If the Windows operating system still does not start, follow these steps to initialize the BIOS:
  1 If there is a disk in the floppy disk drive, then remove it.
  2 Turn off the computer.
  3 Remove any peripheral devices connected to the computer.
  4 Restart the computer.
  5 Press the **F2** key when the VAIO logo appears. The **BIOS Setup** window appears.
  6 Press the **Right Arrow** key → to select the **Exit** menu.
  7 Press the **Down Arrow** key ↓ to select **Get Default Values**. The message **Load factory default values.** appears.

8 Press the **Enter** key. The **Load Optimal Defaults?** window appears.

9 Select **Ok**, and press **Enter**.

10 Select **Exit (Save Changes)**, and press **Enter**. The **Save configuration changes and exit setup?** window appears.

11 Select **Ok**, and press **Enter**. The computer restarts.

What do I do if my computer stops responding?

It is best to turn off your computer using the Turn Off Computer option on the Microsoft® Windows® Start menu, located on the taskbar. Using other methods, including those listed below, may result in loss of unsaved data.

- Click **Start** on the Windows® taskbar, select **Turn Off Computer**, and then click **Turn Off**.
- If your computer does not turn off, press the **Ctrl+Alt+Delete** keys simultaneously. When the **Windows Task Manager** dialog box appears, click **Turn Off** from the **Shut Down** menu.
- If your computer still does not turn off, press and hold the power button or slide and hold the power switch until the computer turns off.
- If your computer stops responding while playing a CD or DVD, press the **Ctrl+Alt+Delete** keys simultaneously. You can turn off the computer from the **Windows Task Manager**.

✍ Pressing the **Ctrl+Alt+Delete** keys simultaneously or turning off the computer with the power button or switch may cause loss of data.

- Remove the AC adapter and battery.

Support Options

If you have questions about your computer or the preinstalled programs, refer to the following sources for answers in the sequence listed below.

1 **VAIO® Computer User Guide**
The on-screen VAIO® Computer User Guide provides detailed information on how to maximize your computer capabilities and solve common problems.

2 **Program Guides and Help Files**
The preinstalled programs on your computer may come with individual help guides. These guides are stored on the hard disk as on-screen Help files. You can find the Help files from the Help menu under the specific program.

3 **Operating System Online Support**
Your computer comes preinstalled with a Microsoft® Windows® operating system. For operating system support, you can visit Microsoft® customer support at: http://support.microsoft.com/directory/.

4 **Sony Computing Support**
This service provides instant access to information on commonly encountered problems. Type a description of the problem and the Knowledge Database searches for the corresponding solutions online. You can visit Sony Computing Support at: http://www.sony.com/pcsupport.

5 **VAIO Update**
When your computer is connected to the Internet, VAIO Update automatically notifies you when critical software and security information is posted on the support Web site. Click the VAIO Update notice to open the VAIO Support Web site and view the information. You can also right-click the **VAIO Update** icon in the **Taskbar Notification** area and select **Go to VAIO Web Support** to open the support Web site.

For customer support information, go to:

http://www.sony.com/pcsupport

VAIO Homepage
http://www.vaio.net

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